IN THE CLAIMS:

- 1. (original) A method for producing silicon wafers with improved surface features, comprising the steps of:
 - (a) supplying a substrate fabricated substantially of silicon; and
 - (b) exposing the substrate to an etching bath containing a caustic etching solution including an additive, wherein the additive is a chlorite salt, an iodate salt, or a mixture thereof.
- 2. (original) A method according to Claim 1, wherein the additive is potassium iodate.
 - 3. (original) A method according to Claim 1, wherein the additive is sodium iodate.
- 4. (original) A method according to Claim 1, wherein the additive is a mixture of potassium iodate and sodium iodate.
- 5. (original) A method according to Claim 1, wherein the additive has an additive concentration of at least about 0.01% by weight.
- 6. (original) A method according to Claim 1, further comprising the step of forming the additive by chemical reaction in the etching bath.

- 7. (original) A method according to Claim 1, further comprising the step of forming the additive by a reaction in the etching bath between iodic acid and hydroxide.
- 8. (original) A method according to Claim 1, further comprising the step of forming the additive by an oxidation of I₂ with chlorate in the etching bath.
- 9. (original) A method according to Claim 1, wherein the additive is sodium chlorite.
 - 10. (original) A method according to Claim 1, further comprising the steps of:
 - (c) removing a portion of the solution from the etching bath;
 - (d) exposing the portion of removed solution to the additive; and
 - (e) returning the exposed portion of removed solution to the etching bath.

Please add the following new Claims:

- 11. (new) A method according to Claim 1, wherein the additive includes lithium iodate.
- 12. (new) A method according to Claim 1, wherein the additive includes an alkaline medium.

- 13. (new) A method according to Claim 1, further comprising the step of:
- (c) replenishing the additive by adding more iodate salt as the iodate salt is depleted.
- 14. (new) A method according to Claim 13, wherein the additional iodate salt is selected from the group consisting of a solid, an aqeous solution and a slurry of the additional iodate salt with a suspending agent.
 - 15. (new) A solution for use in etching silicon wafers comprising:

a caustic solution for etching crystal silicon, the caustic solution having an additive including a chlorite salt, an iodate salt, or a mixture thereof.

16. (new) A solution as recited in Claim 15, wherein the additive is potassium iodate mixed with sodium iodate.